

46. A graft system for repairing an aneurysm in a vessel comprising:  
a delivery catheter having an outer sheath and an inner portion  
contained within a lumen formed by the outer sheath,  
first and second graft segments located in the delivery catheter  
between the inner portion and the sheath, the first and second graft segments being  
formed of a material which expands from a radially contracted position to a  
radially expanded position when the sheath is withdrawn, the first and second graft  
segments being positioned in the delivery catheter in a non-overlapping manner  
such that the first graft segment may be deployed independently of the second  
graft segment and the second graft segment can be deployed thereafter in a  
telescoping manner with respect to the first graft segment by advancing the  
catheter into a lumen formed when the first graft system is deployed and further  
withdrawing the sheath such that the second graft segment is deployed partially  
within the first graft segment, and  
a transition element fixed to the inner portion, substantially between the  
first and second graft segments, the transition element having a smooth tapering  
diameter in the direction of the first graft segment to facilitate insertion of the  
second graft segment into the first graft segment after the first graft segment has  
been deployed.--

REMARKS

The prior application was originally filed with claims 1 to 45.

This application is a division of U.S. Serial No. 09/039,776, filed March 16, 1998. Applicants have paid the issue fee for U.S. Serial No. 09/039,776.

The specification has been amended above. The amendments to the specification add no new matter.

Preliminary Amendment  
Applicants: Chad J. Kugler et al.  
Prior Application Serial No.: 09/039,776

Attorney Deposit: TER1001USD1

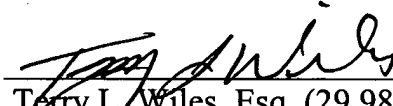
Claims 1 to 45 were originally filed in the parent application U.S. Serial No. 09/039,776. Claims 1 to 36 have been canceled without prejudice above. New claim 46 has been added. Support for new claim 46 may be found generally throughout the specification and at page 28, lines 17 to 24 and in FIGS. 16, 18, 19, and 29.

Claims 37 to 46 will be pending after entry of the above amendments.

If any additional fees are due in connection with the filing of this paper, please charge the fees to our Deposit Account No. 16-2312. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our deposit account.

Respectfully submitted,

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By   
Terry L. Wiles, Esq. (29,989)  
Miriam G. Simmons (34,727)  
POPOVICH & WILES, P.A.  
IDS Center, Suite 1902  
80 South 8th Street  
Minneapolis, MN 55402  
Telephone: (612) 334-8989  
Representatives of Applicants